

Title (en)  
SOLDER ALLOY, SOLDER PASTE, AND SOLDER JOINT

Title (de)  
LÖTLEGIERUNG, LÖTPASTE UND LÖTVERBINDUNG

Title (fr)  
ALLIAGE DE SOUDAGE, PÂTE À SOUDER ET JOINT À BRASURE TENDRE

Publication  
**EP 3603877 A1 20200205 (EN)**

Application  
**EP 18774478 A 20180330**

Priority  

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Abstract (en)  
Provided are a solder alloy, a solder paste, and a solder joint which provide high reliability in that the solder alloy has a high tension strength and that excellent vibration resistance is achieved at a joint part between a printed-circuit board and an electronic component. The solder alloy comprises, by mass%, 1-4% of Ag, 0.5-0.8% of Cu, more than 4.8% but not more than 5.5% of Bi, more than 1.5% but not more than 5.5% of Sb, not less than 0.01% but less than 0.1% of Ni, and more than 0.001% but not more than 0.1% of Co, with the remainder being Sn.

IPC 8 full level  
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**B23K 35/264** (2013.01 - KR); **B23K 35/36** (2013.01 - EP); **C22C 13/02** (2013.01 - EP KR)

Cited by  
US11167379B2

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ES 2887361 T3 20211222; HR P20211378 T1 20211224; HU E056341 T2 20220228; JP 6447790 B1 20190109;  
JP WO2018181873 A1 20190404; KR 102071255 B1 20200131; KR 20190112166 A 20191002; MX 2019011465 A 20191101;  
MY 188597 A 20211222; PH 12019502148 A1 20200608; PH 12019502148 B1 20200608; PT 3603877 T 20210909; TW 201842206 A 20181201;  
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